Exhibit 4



UNITED STATES EPARTMENT OF COMMERCE Patent and Trademark Office

Address : COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTE	*10 MO
7/218,312 0	7/1.2/88	HOLMEERG	- S IN'E	RNEY DOCKET NO.
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FILUERMAN, CASS, SINGER & WINBURN, LTD. 105 WEST ADAMS STREET, 27TH FLOOR CHICAGO, IL 40603

AMSEY . F	XAMINER
ARTUNIT	PAPER NUMBER
	' /
DATE MAILED:	5 to 2004 (C)C)

This is a communication from the examiner in charge of your application.

COMMISSIONER OF PATENTS AND TRADEMARKS

PTOL-326 (Rev. 7 - 82)

This application has been examined Responsive to communication filed on	This action is made final.
A shortened statutory period for response to this action is set to expire	- · · · · · · · · · · · · · · · · · · ·
Part I THE FOLLOWING ATTACHMENT(5) ARE PART OF THIS ACTION: 1. Notice of References Cited by Examiner, PTO-892. 2. Notice re Patent Dra 3. Notice of Art Cited by Applicant, PTO-1449 4. Notice of informal Pa 5. Information on How to Effect Drawing Changes, PTO-1474 6	wing, PTO-948. atent Application, Form PTO-152
Part II SUMMARY OF ACTION	
1. Claims 1-36	are pending in the application,
Of the above, claims	are withdrawn from consideration.
2 Claims	have been cancelled.
3. Claims	are allowed,
4 Claims 1-6, 8-17, 19-24, 26-35	are rejected.
5 (18, 25 and 36	are objected to.
_ ·	t to restriction or election requirement.
7. This application has been filed with informal drawings which are acceptable for examination pur	poses until such time as allowable subject
matter is Indicated. 8. Allowable subject matter having been indicated, formal drawings are required in response to this	Office action.
The corrected or substitute drawings have been received on These of These of not acceptable (see explanation).	drawings are acceptable;
10. The proposed drawing correction and/or the proposed additional or substitute sheet(s) on has (have) been approved by the examiner.	
11. The proposed drawing correction, filed have drawing changes. It is now applicant's response corrected. Corrections MUST be effected in accordance with the instructions sel forth on the a EFFECT DRAWING CHANGES", PTO-1474.	disapproved (see explanation). However, asibility to ensure that the drawings are
12. C Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has {	been received not been received
been filed in parent application, serial no; (iled on;	
 Since this application appears to be in condition for allowance except for formal matters, prosect accordance with the practice under Ex parte Quayte, 1935 C.O. 11; 453 O.G. 213. 	oution as to the merits is closed in
14. Other	

EXAMINER'S ACTION

Serial No. 218.312 Art Unit 325

-2-

Claims 30-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear what article limitations are set forth by the steps of providing interconnecting means and removing the same; or even whether any further article limitations are intended. As to claim 30, lines 2-8, if the interconnection means a part of the device they should be positively recited. As to claim 30, lines 9-10, the structure of the article resulting from forming and then removing the outer guard ring is the same as that recited in the base claim contrary to 35 USC 112 which requires that a further limitation be positively set forth. Thus it does not appear that applicant is claiming that which he regards as his invention by the recitation of process steps set forth above in the article claim.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as sat forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f)and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at

. _ _

Serial No. 218,312

Art Unit 325

-3-

the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 1-6, 8-17, 19-24 and 26-35 are rejected under 35 U.S.C. 103 as being unpatentable over Tuan in Hyracek or view of Harrison and Mack et al. Tuan discloses an electro-static discharge protection network with interconnecting resistance elements but does not teach means for removing the same at the completion of the device manufacture, Harrison teaches an external buffer network means to protect the device during manufacture and for supplying test currents. The circuits of Harrison are Hynecek removed at completion of the device. It would have been obvious at the time applicant's invention was made to a person of ordinary skill in the art to have provide an external buffer and test circuit as taught by Harrison or Hynecek in the device of Tuan for discharge protection which is separable by scribe lines to provide a more compact functional device. Shunt switching means for draining large current discharges via an external circuit pad are well known as shown by Mack et al. As to claims 5, 16, and 34, the pads are rectangular and thus have corner means equivalent to that claimed. As to claims 6, 17 and 35, pads are shown at the corners in Harrison; further, the particular location of the pads is obvious to enable a plurality of pads to be situated in spaced relationship.

Claims 7, 18, 25 and 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all Serial No. 218,312

-4-

Art Unit 325

of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Simmons et al shows interconnection fuse means for temporarily providing device protection.

Any inquiry concerning this communication should be directed to K.J. Ramsey at telephone number 703-557-8311.

KJ Ramsey:klw

3-29-89

(703) 557-8311

Renall Konsey

KENNETH J. RAMSEY EXAMINER GROUP 320

	TO SEPARATE HOLD TOP AND BOTTOM EDGES, SNAP-APART AND CARD CARBON																		
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电影型	FOR (RE	M P V. 3	TO-78	892)			U.S PAT	. DE	PAR	TMENT OF COMI D TRADEMARK	MERCE OFFICE	SERIAL NO.		3 2		PA	HMEN PER PER		7
NOTICE OF REFERENCES CITED PATENT AND TRADEMARK OFFICE 2 8,3/2 325 PAPPER NUMBER APPLICANT(S) 10 mberg U.S. PATENT DOCUMENTS									***										
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	(See Manual of Patent Examining Procedure, section 707.05 (a).)																		



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT		ATTORNEY DOCKET NO.
07/218,312	07/12/88	HOLMBERG	5	H-FHH-18

SILVERMAN, CASS, SINGER & WINBURN, LTD. 105 WEST ADAMS STREET, 27TH FLOOR CHICAGO, IL 60603

EXAMINER					
TOPHINOLT FIX					
ART UNIT.	PAPER NUMBER				
UZO	E				
DATE MAILED:	11/06/99				

NOTICE OF ABANDONMENT

This	application is abandoned in view of:
1. 18	Application is abandoned in view of: Applicant's failure to respond to the Office letter, mailed
	Applicant's letter of express abandonment which is in compliance with 37 C.F.R. 1.138.
3. [Applicant's failure to timely file the response received within the period set in the Office letter.
4. E	Applicant's failure to pay the required issue fee within the statutory period of 3 months from the mailing date of of the Notice of Allowance.
	☐ The Issue fee was received on
	☐ The issue fee has not been received in Allowed Files Branch as of
	In accordance with 35 U.S.C. 151, and under the provisions of 37 C.F.R. 1.316(b), applicant(s) may petition the Commissioner to accept the delayed payment of the issue fee if the delay in payment was unavoidable. The petition must be accompanied by the issue fee, unless it has been previously submitted, in the amount specified by 37 C.F.R. 1.17 (i), and a verified showing as to the causes of the delay.
	If applicant(s) never received the Notice of Allowance, a petition for a new Notice of Allowance and withdrawal of the holding of abandonment may be appropriate in view of Deigar Inc. v. Schuyler, 172 U.S.P.Q. 513.
5. [Applicant's failure to timely correct the drawings and/or submit new or substitute formal drawings by as required in the last Office action. The corrected and/or substitute drawings were received on

Kenneth & Kronely KENNETH J. RAMSEY EXAMINER GROUP 320

□ The reason(s) below.

Attorney Docket No. 32972

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Scott H. Holmberg

Serial No. 07/218,312

Filed: July 12, 1988

For:

METHOD FLAT MANUFACTURING PANEL BACKPLANES INCLUDING ELECTROSTATIC DISCHARGE PREVENTION AND DISPLAYS

THEREBY

Group Art Unit: 325

Examiner: Kenneth J. Ramsey

RECEIVED

JUL 12 1990

DEPUTY ASST. COMM.

CHANGE OF ADDRESS

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

In accordance with M.P.E.P. Section 601.03, please change the correspondence address in this application to

> Leydig, Voit & Mayer One IBM Plaza, Suite 4600 Chicago, Illinois 60611 (312) 822-9666

Please additionally recognize:

C. Frederick Leydig, Reg. 16196 John P. Bundock, Reg. 16678 Paul L. Ahern, Reg. 17020 Berton S. Sheppard, Reg. 20922 James B. Muskal, Reg. 22797 Dennis R. Schlemmer, Reg. 24703 Gordon R. Coons, Reg. 20821 Michael C. Payden, Reg. 24037 John E. Rosenquist, Reg. 26356 John W. Kozak, Reg. 25117 Charles S. Oslakovic, Reg. 27583 John D. Foster, Reg. 22943 Bruce M. Gagala, Reg. 28844

Charles H. Mottier, Reg. 30874 John Kilyk, Jr., Reg. 30763 Robert F. Green, Reg. 27555 John T. Winburn, Reg. 26822
John B. Conklin, Reg. 30369
John M. Belz, Reg. 30359
Herbert C. Rose, Reg. 28946
Jeffrey S. Ward, Reg. 32774
Brett A. Hesterberg, Reg. 31837 Keith B. Willhelm, Reg. 31442 Paul J. Korniczky, Reg. 32849 Mark E. Phelps, Reg. 28461 Christopher T. Griffith, Reg. 33392
H. Michael Hartmann, Reg. 28423 Jeffrey A. Wyand, Reg. 29458
John D. Foster, Reg. 22943 James C. Pintner, Reg. 33272 Maurice U. Cahn, Reg. 30454 William J. Bundren, Reg. 31712

as associate attorneys with full power of substitution to transact all business in the Patent Office in the above referenced matter.

Signed at Boca Raton in the County of Palm Beach and State of Florida, this 25th day of June, 1990.

Respectfully submitted,

John TV Winburn - Reg. No. 26822 One of the Attorneys for Applicant Leydig, Voit & Mayer One IBM Plaza, Suite 4600 Chicago, Illinois 60611

Boca Raton, Florida (407) 392-5332

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on June 25, 1990.

(date)



PATENT

Attorney Docket No. 32972

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Scott H. Holmberg

Group Art Unit: 325

Serial No. 07/218,312

Examiner: Kenneth J. Ramsey

Filed: July 12, 1988

For:

M E T H O D O F
MANUFACTURING FLAT
PANEL BACKPLANES
I N C L U D I N G
E L E C T R O S T A T I C
DISCHARGE PREVENTION
AND DISPLAYS MADE
THEREBY

RECEIVED

JUL 12 1990

DEPUTY ASST. COMM.

PROPOSED RESPONSE

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

sir:

In response to the Office Action of March 31, 1989, with a response due date of June 30, 1989 and in accordance with the PETITION FOR REVIVAL attached hereto, please amend the application as follows:

IN THE CLAIMS

Please amend claim 30 as follows:

including [interconnecting] substantially all of said row lines interconnected to one another and substantially all of said column lines interconnected to one another and [forming] an outer electrostatic discharge guard ring formed on said substrate coupled to said interconnected row and column lines via a resistance to provide protection from electrostatic

- 1 -

32972.RSP

discharges between said row and column activation lines during manufacture of the displays[; and

removing said outer guard ring and row and column interconnections prior to completion of the display].

REMARKS

The Examiner rejected claims 30-34 under 35 U.S.C. Section 112 as indefinite. Claim 30 has been amended to positively recite the elements in lines 2-8 and to delete lines 9 and 10. The 35 U.S.C. Section 112 rejection now should be obviated.

Claims 1-6, 8-17, 19-24 and 26-35 were rejected under 35 U.S.C. Section 103 as obvious over Tuan in view of Hynecek or Tuan in Fig. 5(a) is concerned with Harrison and Mack. electrostatic discharge protection of an active matrix display. The resistive stripes 70 are not however removable as required by independent claims 1 and 19, as noted by the Examiner. The Examiner combines two semiconductor circuits in an attempt to supply such a teaching. Hynecek removes the interconnect 4 between devices 3, but does not provide row and column line connections or remove such connection if resistance 11 is taken to be such a connection. Likewise, Harrison is an integrated circuit, which has elements which could be separated at score line 270, but the elements are not an outer discharge ring connected as claimed. Tuan as noted in column 1 thereof, was familiar with various semiconductor circuits and chose to form the permanent non-removable resistive strips. It is not felt that a proper combination can be made from the teachings of Tuan, Harrison and Hynecek taken as a whole as required. Independent claims 1 and 19 and the claims dependent therefrom clearly should be allowable. Also, specifically dependent claims 8 and 26 add a second permanent inner guard ring, which dual ring is not suggested by any of the references alone or combined. Mack is recited to provide a teaching of such an inner guard ring as also claimed in independent claims 10 and Mack again is a semiconductor type device and is not

directed to an active matrix backplane as claimed. Further, the subsurface PN junctions 46 and/or 56 are external to the circuit and cannot be utilized in an active matrix backplane Independent claims 10 and 28 clearly should be allowable as well as the claims dependent therefrom. Further, dependent claims 12 and 30 add the second outer guard ring which, as stated above, clearly is not disclosed or suggested by the references alone or in combination.

It is noted with appreciation that claims 7, 18, 25 and 36 are deemed to have allowable subject matter, however, the independent claims are felt to be allowable as above stated.

Claims 1-36 as now written clearly distinguish over the references of record, both structurally and functionally, and are in allowable form. The lacking teaching is not supplied or suggested by the references alone or in combination. Applicant respectfully requests withdrawal of the rejections and allowance of the claims.

Signed at Boca Raton in the County of Palm Beach and State of Florida, this 25th day of June, 1990.

Respectfully submitted,

John T. Winburn - Reg. No. 26822 One of the Attorneys for Applicant Leydig, Voit & Mayer

One IBM Plaza, Suite 4600 Chicago, Illinois 60611

Boca Raton, Florida (407) 392-5332

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on June 25, 1990.

(date) Julie M Vitaminons

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PATENT Attorney Docket No. 32972

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Scott H. Holmberg

Serial No. 07/218,312

Filed: July 12, 1988

For:

M E T H O D O F
MANUFACTURING FLAT
PANEL BACKPLANES
I N C L U D I N G
E L E C T R O S T A T I C
DISCHARGE PREVENTION
AND DISPLAYS MADE
THEREBY

Examiner: Kenneth J. Ramsey

Group Art Unit: 325

RECEIVED

JUL 12 19901

DEPUTY ASST. COMM

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b)

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

Dear Sir:

- 1. This application became abandoned on June 30, 1989.
- This petition is filed within one year of the date of abandonment.
- 3. This application became abandoned unintentionally.
- 4. Proposed response is attached.
- 5. Fee (37 CFR 1.17(m), application status is other than small entity - fee \$620.00
- 6. Payment of fee:

Enclosed please find a check for \$620.00.

Charge Account 12-1216 for any additional fee required.

- 1 -

32972.PET

7. Verification:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Date: 6/25/90

- Reg. No. 26,822 One of the Attorneys for Applicant Leydig, Voit & Mayer One IBM Plaza, Suite 4600 Chicago, Illinois 60611

Boca Raton, Florida (407) 392-5332

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in Commissioner of Patents and an envelope addressed to: Trademarks, Washington, D.C. 20231, on June 25, 1990.

- 2 -



UNITED STA DEPARTMENT OF COMMERCE Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

JVN/eh.8

Paper No. 9

Leydig, Voit & Mayer One IBM Plaza Suite 4600 Chicago, IL 60611

COPY MAILED AUG 2 0 1990

DEPUTY ASST. COMM.

In re Application of Scott H. Holmberg Serial No. 218,312 Filed: July 12, 1988 Attorney Docket No. ALPHA-18

ON PETITION

This is a decision on the petition under 37 CFR 1.137(b), filed June 28, 1990, to revive the above-identified application.

The petition is granted.

The application file is being forwarded to Group 320.

Jeffrey V. Nase

Supervisory Petitions Examiner Office of the Deputy Assistant Commissioner for Patents

Attorney Docket No. 32972

HE UNITED STATES PATENT AND TRADEMARK OFFICE

plication of:

Scott H. Holmberg

Serial No. 07/218,312

Filed: July 12, 1988

For:

METHOD MANUFACTURING TA.TR PANEL BACKPLANES INCLUDING ELECTROSTATIC DISCHARGE PREVENTION AND DISPLAYS MADE THEREBY

Group Art Unit: 325

Examiner: Kenneth J. Ramsey

Commissioner of Patents and Trademarks Washington, D.C. 20231

CHANGE OF ATTORNEY'S ADDRESS IN APPLICATION

Please send all correspondence for this application as follows:

LEYDIG, VOIT & MAYER 180 North Stetson Avenue Two Prudential Plaza - Suite 4900 Chicago, Illinois 60601-6780

Please direct telephone calls to: (312) 616-5600

and all facsimiles to:

(312) 616-5700

John T. Winburn, Reg. No. 26,822 One of the Attorneys for Applicant(s) LEYDIG VOIT & MAYER 180 North Stetson Avenue Two Prudential Plaza - Suite 4900 Chicago, Illinois 60601-6780

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231.

<u>Julie M. Fitzsimmons</u>

Date: August 30, 1990

Signature of person/mailing paper





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED	APPLICANT	ATTORNEY DOCKET NO.		
07/218,312	07/12/88	HOLMBERG	s	ALPHA-18		
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	IT & MAYER STETSON AVEN	ART UNIT	PAPER NUMBER			
TWO PRUDENTIAL PLAZA-SUITE 4900 CHICAGO, ILLINOIS 66601		325	11			
			DATE MAILED:	12/07/90		

NOTICE OF ALLOWABILITY

ART!	mendment dated 6/28/90
. This communication is responsive to	
	N THE MERITS IS (OR REMAINS) CLOSED in this application, if not included nce And Issue Fee Due or other appropriate communication will be sent in due
course	tice with issue Les Doe of Grind appropriate Commissions will be self in ode
. If The allowed claims are 1-36	
	are acceptable.
_	under 35 U.S.C. 119. The certified copy has [_] been received. [_] not been
	to filed on
Note the attached Examiner's Amendment,	
. 🗀 Note the attached Examiner interview Summary Rec	ord, PTOL-413.
. S Note the attached Examiner's Statement of Reasons	
. Note the attached NOTICE OF REFERENCES CITED	, PTO-892.
. 🔾 Note the attached INFORMATION DISCLOSURE CIT	TATION, PTO-1449.
RT II.	
	comply with the requirements noted below is set to EXPIRE THREE MONTHS
	allure to timely comply will result in the ABANDONMENT of this application
tensions of time may be obtained under the provisions of	37 CFR 1,136(a).
T Note the attached EXAMINER'S AMENDMENT or	NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath
or declaration is deficient. A SUBSTITUTE OATH OR	
	ES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE
OF THIS PAPER.	The state of the s
a. Drawing informalities are indicated on the NC, CORRECTION IS REQUIRED.	DTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No
 The proposed drawing correction filed on	has been approved by the examiner, CORRECTION IS
 c.	y the examiner in the attached EXAMINER'S AMENDMENT, CORRECTION IS
d. Formal drawings are now REQUIRED.	
,	
ny response to this letter should include in the upper r ND ISSUE FEE DUE; ISSUE BATCH NUMBER, DATE OF T	right hand corner, the following information from the NOTICE OF ALLOWANCI THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.
tschments;	
Examiner's Amendment Examiner Interview Summary Record, PTOL- 413	 Notice of informal Application, PTO-152 Notice re Patent Drawings, PTO-948
Examiner interview Summary Record, P1OL-413 Reasons for Allowance	Listing of Bonded Draftsmen
Notice of References Cited, PTO-892	_ Other
Information Disclosure Citation, PTO-1449	
Non	Kenneth J. RAMSEY
NOTICE	DENINERI I DAMCEV
ONLY OPTION 1.8) ON THE ME	VEHILL T. WHICE

MAY BE USED TO CORRECT DRAWN IF THE APPLICATION WAS FILLED AFTER JANUARY 1, 1985, 37 CFF 1.85 (1097 O. G. 42).

EXAMINER GROUP 320

PTOL-37 (REV. 11-88)